

Light efficiency:



Output: 1300 lm

Light quality:

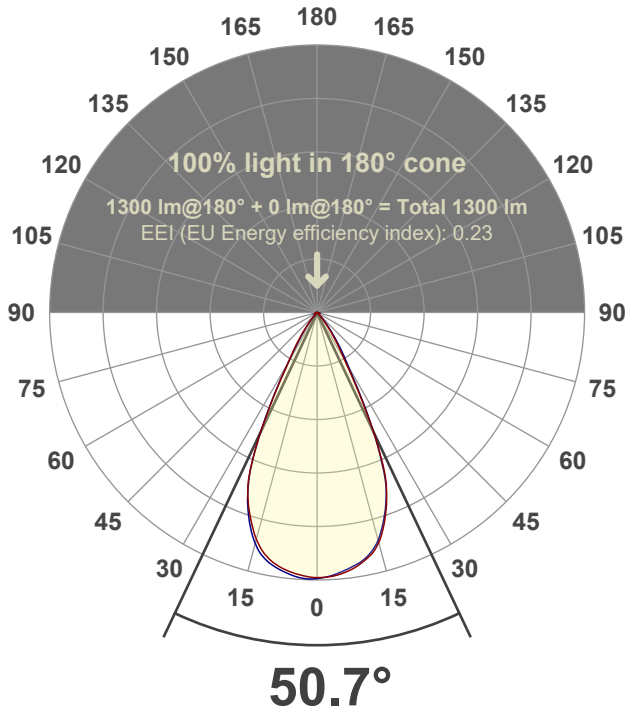


Peak: 1978 cd

Power: 21.3 W



Beam angle



Test number:

GR-F-A20-3019-WF-SQ-Rev2

Luminaire Model:

Graffiti Regress Square Fixed Downlight-A20-3019 60° Optic

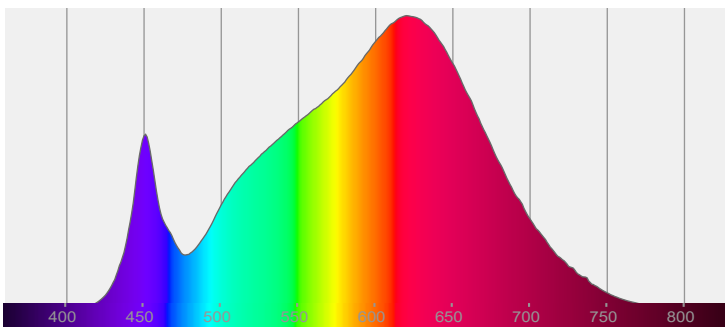
Date and time:

6/21/2022 7:53:27 PM

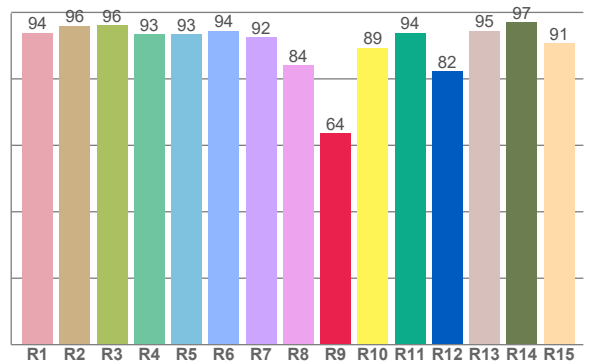
Delivered Lumens

1300

Spectra



CRI: 92.9 (R1-R8)



Color parameters

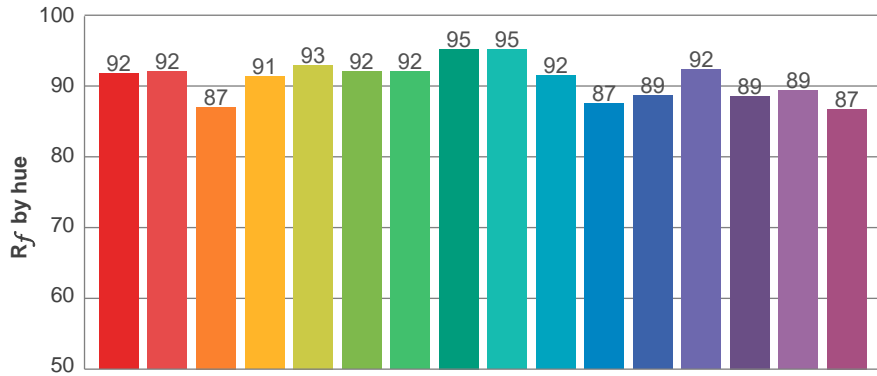
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	63.6	91.0	101.8	89.9	0.432	0.396	0.251	0.345	-0.0026

R_f 91.0
Fidelity index R_f

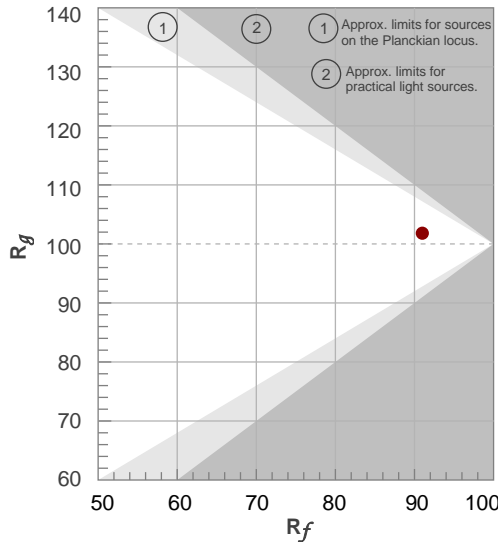
R_g 101.8
Gammut index R_g

TM30: 91.0

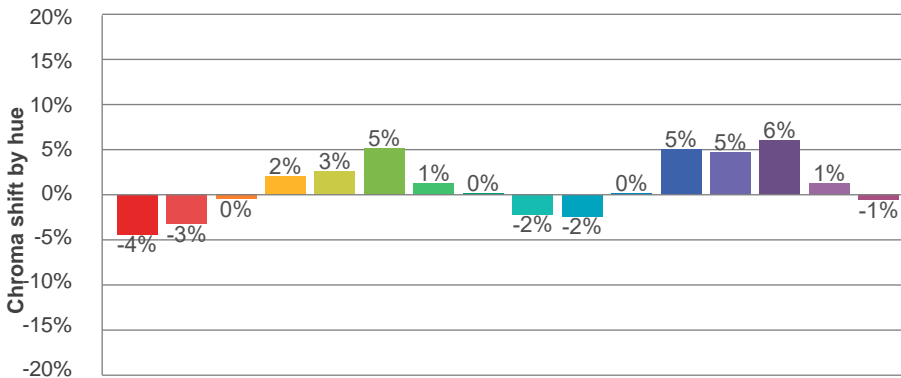
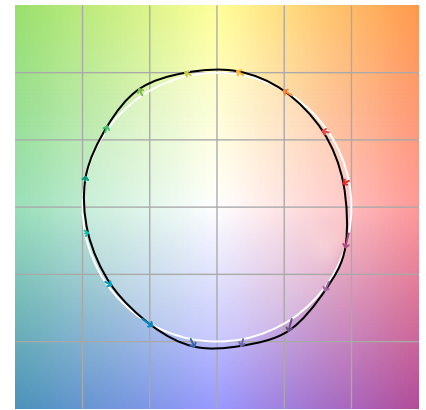
TM-30Color



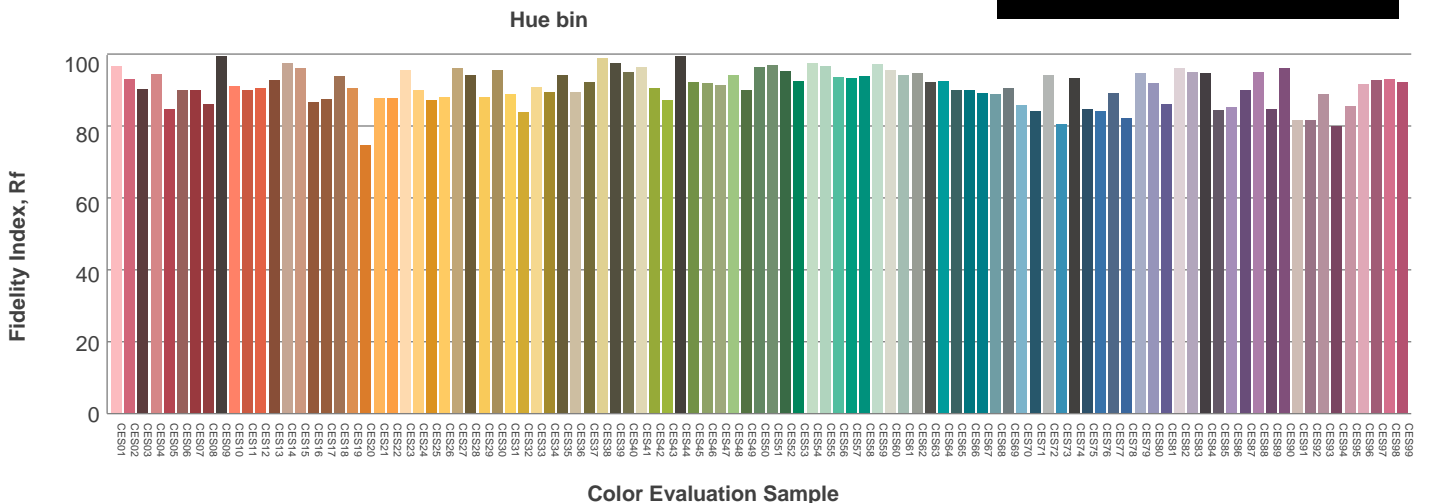
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	92	-3%	3%
3	87	0%	7%
4	91	2%	5%
5	93	3%	4%
6	92	5%	-1%
7	92	1%	-5%
8	95	0%	-3%
9	95	-2%	0%
10	92	-2%	5%
11	87	0%	9%
12	89	5%	4%
13	92	5%	-2%
14	89	6%	-7%
15	89	1%	-7%
16	87	-1%	-11%



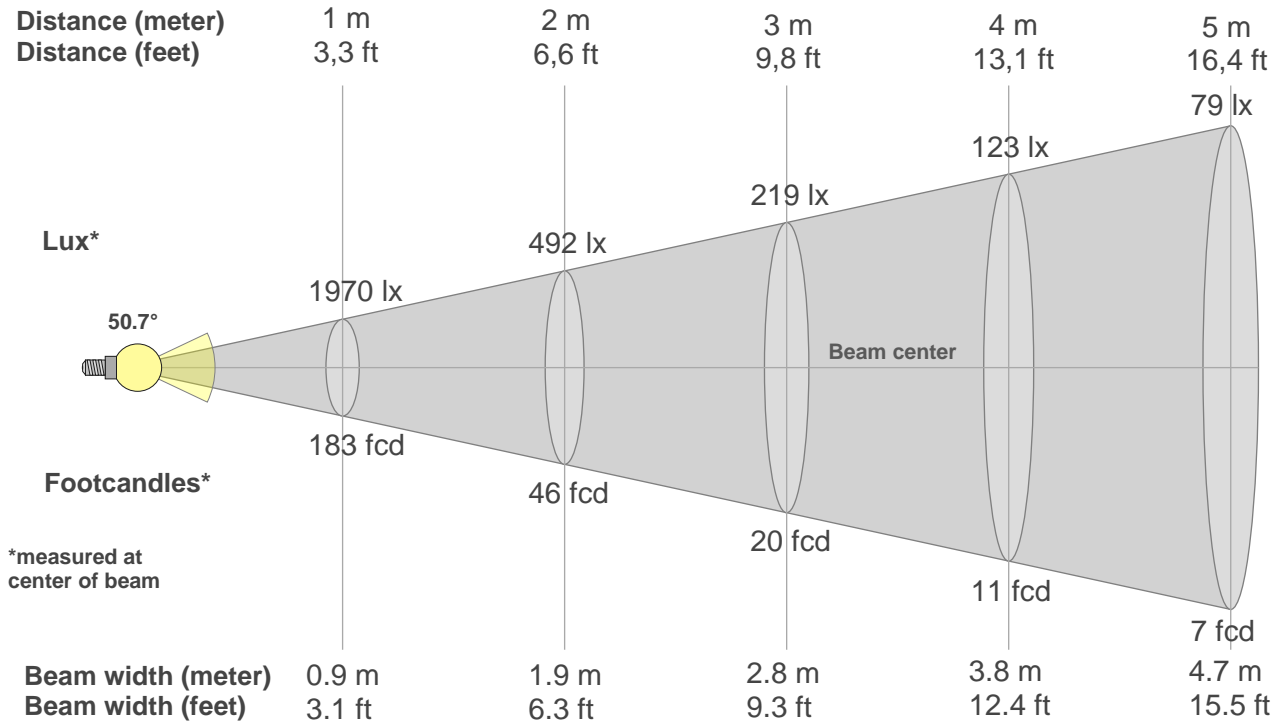
Color vector graphics



Color distortion



Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
1970lx	492lx	219lx	123lx	79lx	55lx	40lx	31lx	24lx	20lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx
183fcd	45.7fcd	20.3fcd	11.4fcd	7.3fcd	5.1fcd	3.7fcd	2.9fcd	2.3fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1970	1964	1957	1941	1919	1888	1851	1800	1726	1625	1507	1363	1157	899	634	430	327	245	179	125
100%	100%	99%	99%	97%	96%	94%	91%	88%	83%	77%	69%	59%	46%	32%	22%	17%	12%	9%	6%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1970	1963	1947	1926	1903	1878	1838	1782	1705	1606	1495	1357	1141	904	673	485	375	287	213	156
100%	100%	99%	98%	97%	95%	93%	90%	87%	82%	76%	69%	58%	46%	34%	25%	19%	15%	11%	8%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1970	1961	1949	1934	1912	1881	1838	1778	1699	1602	1498	1362	1154	900	647	445	339	255	186	131
100%	100%	99%	98%	97%	96%	93%	90%	86%	81%	76%	69%	59%	46%	33%	23%	17%	13%	9%	7%

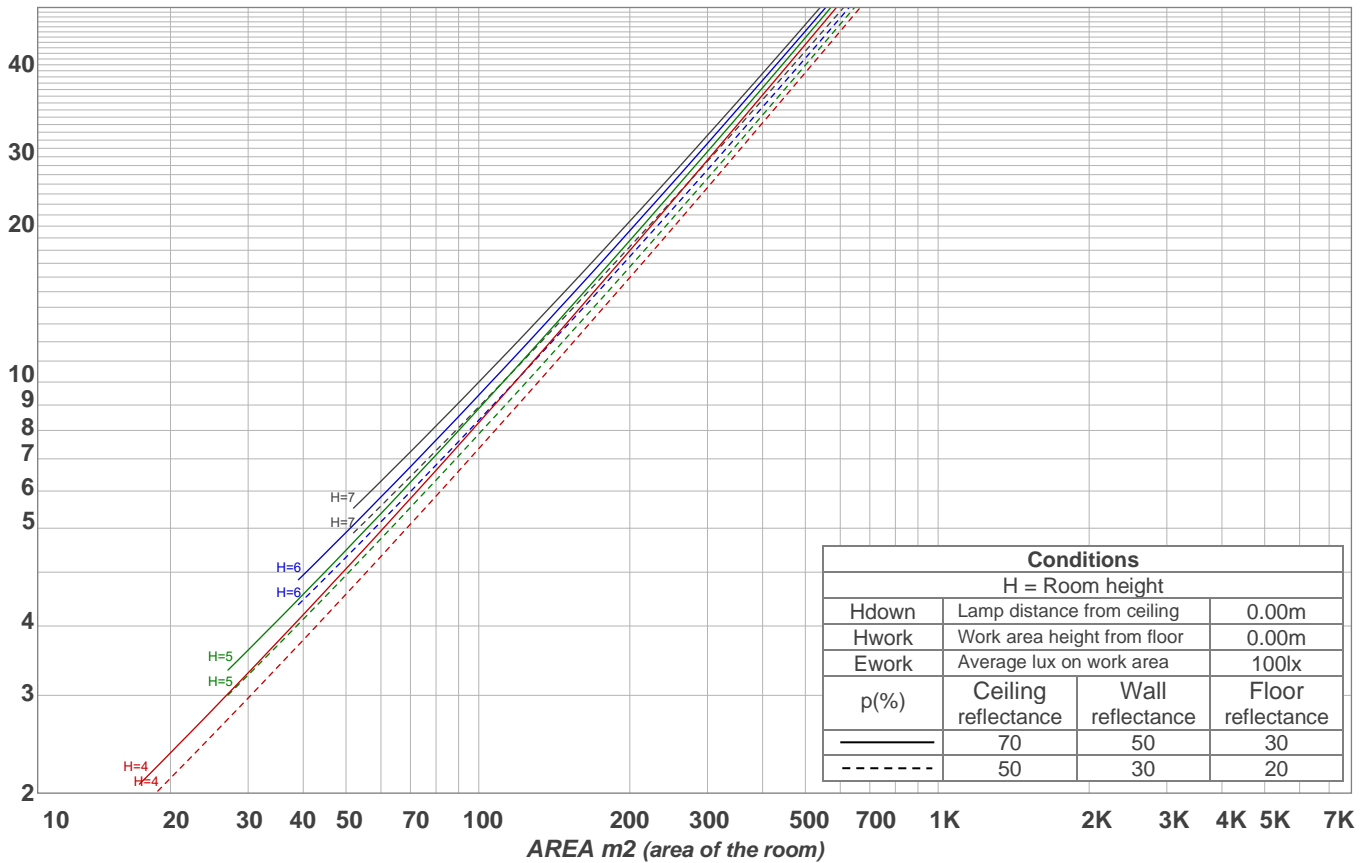
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1970	1978	1970	1953	1931	1903	1866	1812	1732	1628	1506	1353	1151	901	650	444	308	216	150	103
100%	100%	100%	99%	98%	97%	95%	92%	88%	83%	76%	69%	58%	46%	33%	23%	16%	11%	8%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50.7°	71°	85.5°	99.2%	98.5%

LAMPS (number of lamps)
50

Light planning Luminaire budgetary diagram



Luminaire budgetary diagram AREA m2 (area of the room) Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0			
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)																				
	Room Values are expressed as percentage of Lumens delivered to the task surface																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94	94	94	
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84	84	84	
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80	80	80	
5	96	88	83	79	94	87	82	79	85	81	78	84	80	77	82	79	77	75	75	75	
6	91	84	78	74	90	83	78	74	81	77	74	80	76	73	79	75	73	71	71	71	
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68	68	68	
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64	64	64	
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	62	61	61	61	
10	77	69	64	60	76	68	63	60	68	63	60	67	63	60	66	62	60	58	58	58	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
184 lm	486 lm	450 lm	141 lm	26.0 lm	3.61 lm	3.11 lm	3.00 lm	3.36 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm